

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	1	10/554312.app.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:01
S3	23	("20020167248" "20040118207" "20040244208" "20050217373" "20050241394" "20070163346" "20070180909" "20080011080" "4806755" "5203208" "5285686" "5389182" "5461916" "5585562" "5673139" "5756895" "5905202" "6104073" "6137206" "6730978" "6763716" "7330271" "7355318").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	ON	2008/09/15 22:19
S4	33	(beardmore near2 geoffrey).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:35
S5	2	S3 and hinge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:40
S6	3	"6707308".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:45
S7	37958	mem and hinge	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:51
S8	0	flexure near2 hinge same parallel same tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:53

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S9	3	hinge same parallel same tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:55
S12	27	hinge same parallel same tunnel\$5 same mem	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:56
S11	836	hinge and parallel and tunnel\$5 and mem	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:56
S10	113	hinge and parallel and tunnel\$5 and quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:56
S13	17	support same parallel same tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 22:58
S16	11	hinge same parallel and tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:12
S15	0	hinge same paralle and tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:12

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S14	3	hinge same tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:12
S17	67	("3585466"   "5149673"   "5258591"   "5367136"   "5504356"   "5596194"   "6054745"   "6202495"   "6204544"   "6229683").PN. OR ("6548841").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/15 23:25
S19	11	cantilever	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:43
S18	0	cantilever same parallel same tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:43
S20	1	cantilever same parallel same tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:44
S21	144	cantilever same parallel same tunnel\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:46
S22	51	cantilever same parallel and tunnel\$5 same quantum	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:47
S23	636	(hinge cantilever) near5 torsion same parallel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:50

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S26	28	(hinge cantilever) near5 torsion same parallel same layer and mem	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:51
S25	41	(hinge cantilever) near5 torsion same parallel same layer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:51
S24	163	(hinge cantilever) near5 torsion same parallel and mem	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/15 23:51
S27	90	("1258368"   "1658669"   "2466703"   "3213318"   "3280550"   "3304446"   "3609593"   "4806815"   "5179499"   "5180940"   "5184269"   "5191251"   "5261747"   "5296775"   "5309056"   "5355712"   "5367584"   "5441343"   "5467068"   "5475318"   "5483799"   "5536988"   "5558304"   "5600174"   "5602955"   "5606635"   "5629665"   "5644177"   "5659285"   "5722989"   "5796152"   "5813441"   "5862003"   "5881198"   "5903078"   "5909078").PN. OR ("6137206").URPN.	OR	ON	2008/09/15 23:59	
S29	38	mem and quantum near2 tunnel\$6 and parallel and rotat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:20
S28	87	mem and quantum near2 tunnel\$6 and parallel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:20

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S30	1	mem and quantum near2 tunnel\$6 and parallel and torsion	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:23
S31	5	mem and quantum near2 tunnel\$6 and parallel same overlap\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:24
S32	0	mem and quantum near2 tunnel\$6 and parallel same overlap\$6 same lateral near10 translation	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:27
S33	0	mem and quantum near2 tunnel\$6 and parallel same overlap\$6 same lateral near10 translation\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:28
S35	2	mem and tunnel\$6 and parallel same overlap\$6 same translation\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:29
S34	1	mem and quantum near2 tunnel\$6 and parallel same overlap\$6 same translation\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:29
S36	301	mem and tunnel\$6 and parallel same overlap\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:30

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S37	5	mem and quantum near5 tunnel\$6 and parallel same overlap\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:31
S38	2	flexure near2 hinge same parallel same overlap\$5 same area	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:39
S41	180	hinge same parallel same overlap\$5 same area and mem	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:41
S40	938	hinge same parallel same overlap\$5 same area	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:41
S42	1	hinge same parallel same overlap\$5 same area and micromechanical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/09/16 00:45
S44	4	hinge and parallel and tunnel\$5 and quantum and @pd>= "20080910"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 18:58
S43	116	hinge and parallel and tunnel\$5 and quantum and pd>= "20080910"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 18:58

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S45	56	hinge and parallel and tunnel\$5 and mem and @pd>="20080910"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 19:01
S46	19	hinge and parallel and tunnel\$5 and mem and ("257" "977").clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 19:02
S47	147	(Electrostatic near5 (micro near1 electromechanical micro-electromechanical))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 19:04
S48	29	(Electrostatic near5 (micro near1 electromechanical micro-electromechanical)) and (quantum near5 tunnel\$ oscillat\$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/30 19:05
S51	6	(257/414-419,e27.006 438/50-53 977/724, 724,732,733).ocls. and ((mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 22:02
S52	1171	((mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 22:23
S53	586	((mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantelever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 22:24

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S56	186	S55 not S54	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 22:52
S55	772	((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 22:52
S54	586	((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 22:52
S58	11	(257/414-419,e27.006 438/50-53 977/724, 724,732,733).ccls. and ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 23:03
S59	12	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 23:06
S60	7	(Michalewicz near2 Marek Rymuza NEAR2 Zygmunt).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 23:09
S61	14	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanicalmems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 23:21

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S62	2	S61 not S59	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 23:22
S63	14	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 23:24
S69	3514	(web net) near2 electrode	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 09:23
S70	176	(web net) near2 electrode near10 substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 09:24
S71	8	(web net) near2 electrode near10 substrate same (benefi\$5 advantag\$5 desirab\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 09:26
S72	19	((coplanar line) near2 electrode) near20 (film layer substrate near2 thin) near10 vibrat\$5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/08 09:31
S73	1431	(digital interdigit\$5) near5 electrode same (benefi\$5 desirab\$5 advantag\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/09 16:30

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S75	224	(digital interdigit\$5) near5 electrode near5 (benefi\$5 desirab\$5 advantag\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/09 16:31
S74	316	(digital interdigit\$5) near5 electrode near10 (benefi\$5 desirab\$5 advantag\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/09 16:31
S76	465	(digital interdigit\$5) near5 capacit\$4 near5 (benefi\$5 desirab\$5 advantag\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/09 16:34
S77	26	elongated near5 dop\$3 near5 region near5 conduct\$5 same substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/19 13:51
S80	1	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ocls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and (rotat\$4 vibrat\$4) and @pd>="20091207"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 13:34
S81	42	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ocls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and (rotat\$4 vibrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 13:35
S82	42	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ocls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and (rotat\$4 vibrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/07 23:34

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S84	3	"20050230710"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/08 00:09
S85	3	("20020130353"   "20030021966"   "6756795").PN. OR ("7279760").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/08 05:47
S86	71	("2003/0021966").URPN.	USPAT	OR	ON	2010/06/08 05:49
S87	3	("20020130353"   "20030021966"   "6756795").PN. OR ("7279760").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/08 06:08
S88	43	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and (rotat\$4 vibrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/08 06:33
S89	43	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and (rotat\$4 vibrat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/08 12:28
S92	21	(US-20020153584-\$ or US-20020153583-\$ or US-20030036244-\$).did. or (US-5461916-\$ or US-6137206-\$ or US-5905202-\$ or US-5756895-\$ or US-5389182-\$ or US-5367136-\$ or US-6534839-\$ or US-6495905-\$ or US-7177505-\$ or US-4028718-\$ or US-4373165-\$ or US-5977596-\$ or US-5265470-\$ or US-5994750-\$ or US-7279760-\$ or US-6674141-\$ or US-6555404-\$).did. or (US-3396317-\$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/08 15:08
S94	6	S92 and hing\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/08 15:14
S96	15	S92 and (support\$4 hold\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/08 16:24
S95	0	S92 and (support\$4 hold\$4) near10 rigid\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/06/08 16:24

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S97	12	S92 and tunnel\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/08 18:24
S10 0	526	parallel near5 (plate plane substrate) near20 (separat\$4 hold\$4 maintain\$4) near5 hing\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/09 07:12
S10 1	82	parallel near5 (plate plane substrate) near20 (separat\$4 hold\$4 maintain\$4) near5 hing\$4 same (flex\$7 (accura\$5 precis\$6 ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/09 07:16
S10 2	1	parallel near20 (plate plane substrate) near50 (separat\$4 hold\$4 maintain\$4) near20 hing\$4 near20 (flex\$7 same (accura\$5 precis\$6 ))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/09 07:20
S10 3	5	parallel near20 (plate plane substrate) near50 (hold\$4 maintain\$4) near20 hing\$4 near20 (accura\$5 precis\$6) same (vibrat\$5 rotat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/06/09 07:23

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S65	12	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((mems mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and rotation\$4	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/07 23:11
S64	3	(Michalewicz near2 Marek Rymuza NEAR2 Zygmunt).in.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/07 23:11

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S68	2	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and (((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/07 23:25
S67	14	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and rotation\$4	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/07 23:25
S98	1	"Term Removed"	USPAT	OR	ON	2010/06/08 15:07
S99	1	"Term Removed"	USPAT	OR	ON	2010/06/08 15:08
S10 4	39	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and ((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) and (rotat\$4 vibrat\$4)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/09 08:40
S10 5	5	(257/414-419,e27.006 438/50-53 977/724, 725,732,733).ccls. and (((electromechanical electro near1 mechanical mem microelectromechanical micro near1 electro near1 mechanical) and (hinge cantilever) and tunnel\$4) ).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/09 08:41